

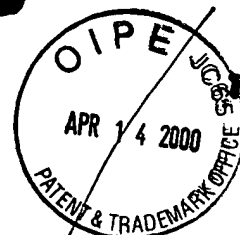
RECEIVED

APR 21 2000

TECH CENTER 1600/2000

-64-

## SEQUENCE LISTING



<110> Kenten, John H.  
Roberts, Steven  
Lohnas, Gerald

<120> HEAT SHOCK FUSION-BASED VACCINE SYSTEM

<130> CIP OF IGN-9601

<140> 09/374,721

<141> 1999-08-13

<150> 09/026,276

<151> 1998-02-19

<160> 35

<170> PatentIn Ver. 2.0

<210> 1

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 1

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile His Ile Gly Pro  
1 5 10 15

Gly Arg Ala Phe Tyr Thr Thr Gly Glu Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala His Cys  
35

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 2

Lys Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys  
1 5 10 15

<210> 3

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 3

Cys Lys Ser Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Gly  
1 5 10 15

Cys

<210> 4

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

<400> 4

ttaagactgc gtggcggcga ccaggttcac ttccagcgcg tgccgcgcggc 50

<210> 5

<211> 37

<212> DNA

<213> Artificial Sequence

<400> 5

tggtgttaaa ctgtctgacg ctctgtaagc ttctgca 37

<210> 6

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 6

gaagcttaca gagcgtcaga cagtttaaca acagccggcg gca

43

<210> 7

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

<400> 7

gcggctggaa gtgaacctgg tcgccgccac gcagtc

36

<210> 8

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

<400> 8

ttaagactgc gtggcgctga ccagggttcac ttccagccgc tgccgccggc

50

<210> 9

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

<400> 9

gcggctggaa gtgaacctgg tcagcgccac gcagtc

36

<210> 10

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

<400> 10

aagaaatcca catcggtccg ggtcgtgctt tctacaccac catcccgcg gatca

55

<210> 11  
<211> 54  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer

<400> 11  
atccggcggg atggtggtgt agaaagcacg acccggaccg atgtggattt cttt 54

<210> 12  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer

<400> 12  
ttaagactgc gtggcggcat ccacatcggc ccg 33

<210> 13  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer

<400> 13  
ggtcgtgctt tctacaccac ctaactgca 29

<210> 14  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer

<400> 14  
gttaggtggt gtagaaagca cgaccggac cgat 34

<210> 15  
<211> 20  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

<400> 15

gtggatgccg ccacgcagtc

20

<210> 16

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 16

Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr

1

5

10

<210> 17

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 17

Asp Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu Ser

1

5

10

15

Asp Ala Leu

<210> 18

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 18

Lys Glu Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe  
1 5 10 15

Met Leu Cys Ile Pro Pro  
20

<210> 19

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 19

Lys Glu Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe  
1 5 10 15

Met Leu Cys Met Pro Pro  
20

<210> 20

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 20

Lys Glu Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe Met Leu  
1 5 10 15

Cys Ile Pro Pro  
20

<210> 21

<211> 17

<212> PRT

<213> Artificial S quence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 21

Lys Glu Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe Met Pro  
1 5 10 15

Pro

<210> 22

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 22

Arg Gly Gly Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp  
1 5 10 15

Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25 30

<210> 23

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 23

Arg Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys  
1 5 10

<210> 24

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 24

Arg	Gly	Ala	Leu	Tyr	Thr	Lys	Val	Val	His	Tyr	Arg	Lys	Trp	Ile	Lys
1					5				10					15	

Asp	Thr	Ile	Val	Ala	Asn	Pro
					20	

<210> 25

<400> 25

000

<210> 26

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 26

Gln	His	Trp	Ser	Tyr	Gly	Leu	Arg	Pro	Gly	Gln	His	Trp	Ser	Tyr	Gly
1					5				10					15	

Leu	Arg	Pro	Gly
			20

<210> 27

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 27

Asp	Asp	Pro	Lys	Thr	Gly	Gln	Phe	Leu	Gln	Gln	Ile	Asn	Ala	Tyr	Ala
1					5				10					15	

Arg	Pro	Ser	Glu	Val
				20



<210> 28  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 28  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5 10

<210> 29  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 29  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly  
20

<210> 30  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 30  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly  
20

<210> 31

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 31

Gln	His	Trp	Ser	Tyr	Gly	Leu	Arg	Pro	Gly	Glu	His	Trp	Ser	Tyr	Gly
1						5				10					15

Leu	Arg	Pro	Gly
			20

<210> 32

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 32

Gln	His	Trp	Ser	Tyr	Gly	Leu	Arg	Pro	Gly
1						5			10

<210> 33

<400> 33

000

<210> 34

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 34

Gln	His	Trp	Ser	Tyr	Gly	Leu	Arg	Pro	Gly	Gln	His	Trp	Ser	Tyr	Gly
1						5				10					15

Leu Arg Pro Gly Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His  
20 25 30

Trp Ser Tyr Gly Leu Arg Pro Gly Cys  
35 40

<210> 35

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polypeptide  
antigen

<400> 35

Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His  
20 25 30

Trp Ser Tyr Gly Leu Arg Pro Gly  
35 40

Al  
cont